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APPLICATION NO. 09/921,844		F	FILING DATE	FIRST NAMED INVENTOR Gary K. Michelson	ATTORNEY DOCKET NO.	CONFIRMATION NO. 8295	
			08/03/2001		101.0084-01000		
	22882	7590	04/23/2003				
	MARTIN & FERRARO				EXAMINER		
	14500 AVION PARKWAY SUITE 300				SNOW, BRUC	SNOW, BRUCE EDWARD	
	CHANTILL	Y, VA 2	201511101		ART UNIT	PAPER NUMBER	
					3738	11	
					DATE MAILED: 04/23/2003	' (

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)						
Office Action Commence	09/921,844	MICHELSON, GARY K.						
Office Action Summary	Examiner	Art Unit						
	Bruce E Snow	3738						
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet with	tne correspondence address						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply ply within the statutory minimum of thirty (3 d will apply and will expire SIX (6) MONTH: tle, cause the application to become ABAN	v be timely filed 0) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).						
1) Responsive to communication(s) filed on <u>08</u>	<u> 3 April 2003</u> .							
2a) ☐ This action is FINAL . 2b) ☑ 1	This action is non-final.							
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims								
4) Claim(s) 1-56,131-145 and 203-258 is/are p	ending in the application.							
4a) Of the above claim(s) 2.4,16,52-56,132 and 134 is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.	,							
, =								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and	/or election requirement.							
Application Papers								
9) The specification is objected to by the Examir	ner.							
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.						
Applicant may not request that any objection to	= : :							
11) The proposed drawing correction filed on	is: a)□ approved b)□ disa	approved by the Examiner.						
If approved, corrected drawings are required in r	• •							
12) ☐ The oath or declaration is objected to by the E	Examiner.							
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority docume	1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority docume								
application from the International E	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domes	cknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
	a) The translation of the foreign language provisional application has been received. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)								
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)						

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DETAILED ACTION

Election/Restrictions

Claims 1, 3, 5-15, 17-51, 131, 133, 135-145, 203-258 read on the elected species as indicated by applicant in paper No. 6. All other claims are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 7. Applicant's election with traverse of Species 3 (figure 12) in Paper No. 7 is acknowledged. The traversal is on the ground(s) that "Applicant traverses the restriction requirement to the extent that it fails to identify any linking claim". This is not found persuasive. Applicant's argument does not address the basis of a species restriction. A species restriction states that the Examiner believes there are patentable distinct embodiments; applicant can agree or disagree. Applicant's response stating that the restriction requirement fails to identify any linking claim is not an appropriate argument. When regarding a species restriction, a discussion regarding generic claims is more likely reasonable.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

All claims are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Regarding claims 1, 131, and 219, what is the difference between "bone engaging structures" and "surface projections"? Please direct to specification and drawings for all support.

Claim 131 is ambiguous. The claim reads, "surface projection having opposed side facets directed generally toward said leading and trailing ends, respectively, said side facets located between said forward facet and said rearward facet". The side facets are directed towards the leading and trailing ends and so are the forward and rearward facets? Additionally, this claim is in direct conflict with claim 1 and 219. This claim is confusing the issue.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, all claims must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Due to the large number of claims only some specific claims will be addressed as examples purposes only. It is Applicant's responsibility to ensure all claimed limitations are shown in the drawings or to remove limitations or cancel the claims of the limitations not shown.

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Examples of claims not shown: Claim 6, the bases are spaced apart; Claim 8, the peaks are aligned along lines that are perpendicular to the longitudinal axis; Claims 9-13; Claim 15; Claim 18; Claim 21, Claim 131, etc.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5-15, 17-51, 131, 133, 135-145, 203-258 (all claims not withdrawn from consideration) rejected under 35 U.S.C. 103(a) as being unpatentable over Aebi et al (6,482,233).

Aebi et al teaches a spinal implant comprising bone engaging structures that are generally pyramid-shaped formed on the upper and lower surfaces of the implant. The engaging structures are slanted towards the anterior therefore having a forward (anterior) facing facet that is shorter than a rearward facing facet and said forward facing facet has a steeper slope; the structures further include side facets. Applicant claims the opposite Aebi et al claiming the bone engaging structures slant rearward

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(posteriorly). However, both Aebi et al and applicant teach the bone engaging structures slant in a direction such to allow ease of insertion and to avoid retropulsion. See Abei et al column 4, lines 30-34 and applicant's specification page 5, lines 5-9 and lines 15-19. It would have been obvious to one having ordinary skill in the art to have slanted the bone engaging structures of Aebi et al posteriorly such that the implant could be introduced posterior-laterally and/or resist movement in the direction towards the spinal cord when a surgeon deems it necessary. Note that Aebi et al teaches the steeper angled face can be "from about 0 to 30 degrees" which the Examiner interprets to include negative angles.

In the alternative, under 35 U.S.C. 103(a): Many of applicant's dependent claims claim a wide range of possibilities, for example, an angle can be less than 90 degrees, perpendicular, or greater than 90 degrees; the groove can be v-shaped, u-shaped, box-like shape; etc, lacking any criticality in the specification, the use of any claimed variation, range, or configuration in lieu of those used in the references solves no stated problem and produces no benefits and would have been an obvious matter of design choice for someone skilled in the art.

Additionally, many of the dependent claims claim elements/materials/shapes/tools/etc. which are taught by the reference or are well known in the prosthetic art and would have been obvious to one having ordinary skill.

Claims 1, 3, 5-15, 17-51, 131, 133, 135-145, 203-258 (all claims not withdrawn) are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Brantigan (4,834,757).

Brantigan teaches a spinal implant comprising bone engaging structures which are slanted towards the trailing end comprising a forward (anterior) facing facet that is

longer than a rearward facing facet and said rearward facing facet has a steeper slope; the structures further include side facets. Brantigan teaches the structures are spaced apart forming grooves which are "u-shaded" or "box like-shaped".

In the alternative, under 35 U.S.C. 103(a): Many of applicant's dependent claims claim a wide range of possibilities, for example, an angle can be less than 90 degrees, perpendicular, or greater than 90 degrees; the groove can be v-shaped, u-shaped, box-like shape; etc, lacking any criticality in the specification, the use of any claimed variation, ranges, or configuration in lieu of those used in the references solves no stated problem and produces no benefits and would have been an obvious matter of design choice for someone skilled in the art.

Additionally, many of the dependent claims claim
elements/materials/shapes/tools/etc. which are taught by the reference or are well
known in the prosthetic art and would have been obvious to one having ordinary skill.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce E Snow whose telephone number is (703) 308-3255. The examiner can normally be reached on Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (703)308-2111. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3590 for regular communications and (703) 305-3590 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

bes April 16, 2003

> BRUCE SNOW PRIMARY EXAMINER